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	Application No.	Applicant(s)
	10/657,385	PERNER ET AL.
Notice of Allowability	Examiner	Art Unit
	ANH PHUNG	2824
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in thi or other appropriate communic IGHTS. This application is subj	s application. If not included ation will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the Election received</u>	on April 4, 2005.	
2. ☑ The allowed claim(s) is/are <u>1-14 and 21-23</u> .		
3. X The drawings filed on <u>08 September 2003</u> are accepted by	y the Examiner.	
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE"	e been received. e been received in Application N cuments have been received in	o this national stage application from the
noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EXAMI	
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date Identifying Indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the stacked Examiner's comment regarding REQUIREMENT.	st be submitted. son's Patent Drawing Review (Formula is Amendment / Comment or in the desired is should be written on the desired header according to 37 CFR 1.	PTO-948) attached the Office action of rawings in the front (not the back) of 121(d). AL must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sumr Paper No./Ma 7. ☑ Examiner's Am 8. ☑ Examiner's Sta 9. ☑ Other <u>Search F</u>	il Date endment/Comment tement of Reasons for Allowance
	ANH	PHUNG Y EXAMINER

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DETAILED ACTION

Examiner's amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CAR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

In the claims:

Cancel non-elected claims 15-20 and 24-26, due to the Election without traverse.

The examiner's amendment has been made in order to place the application in a condition for allowance.

2. This Office Action is responsive to the Election received on April 4, 2005, the elected claims **1-14** and **21-23** are pending in the application, and cancel non-elected claims **15-20** and **24-26** per Examiner's amendment described above.

Examiner's Statement of Reasons for Allowance

3. Claims **1-14** and **21-23** are allowed.

Perner et al. (U.S. Pat. No. 6,754,123), Ooishi et al. (U.S. Pat. No. 6,731,535), Konikiyo et al. (U.S. Pat. No. 6,567,299) and Scheuerlein et al. (U.S. Pat. No. 5,793,697) disclose a data storage device similar to that of the present application, but fail to teach:

"a first bit line comprising a distributed series diode along a length of the bit line such that each of the associated memory cells located along the first bit line is coupled

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between the distributed series diode and an associated word line" as claimed in the independent claim 1; or

"a first bit line comprising a distributed series diode with a metal layer, a semiconductor layer, and a material layer disposed between the metal layer and the semiconductor layer, the distributed series diode extending along an entire length of the bit line such that each of the associated memory cells located along the first bit line is coupled between the distributed series diode and an associated word line" as claimed in the independent claim 21.

Any comments considered necessary by applicants must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comment on Statement of Reasons for Allowance".

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **ANH PHUNG** whose telephone number is **(571) 272-1883**. The examiner can normally be reached on Monday-Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD ELMS, can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC2800 telephone directory whose telephone number is (571) 272-2800.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANH PHUNG whose telephone number is (703) 305-1342. The examiner can normally be reached on MONDAY-FRIDAY 9-5.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ANH PHUNG PRIMARY EXAMINER

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